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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,467	12/13/2006	Roland Edelmann	289261US0PCT	7208
22850	7590	04/22/2011	EXAMINER	
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314				YAGER, JAMES C
ART UNIT		PAPER NUMBER		
1782				
NOTIFICATION DATE			DELIVERY MODE	
04/22/2011			ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No.	Applicant(s)
	10/576,467	EDELMANN ET AL.
	Examiner	Art Unit
	JAMES YAGER	1782

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 April 2010.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1 and 6-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1 and 6-10 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date 20110403
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 April 2010 has been entered.

Response to Amendment

2. The amendment filed 26 April 2010 has been entered. Claims 1 and 6-10 are currently pending in the application. The rejections of record from the office action dated 25 November 2009 not repeated herein have been withdrawn.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Art Unit: 1782

4. Claims 1 and 6-10 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There does not appear to be support to recite "organoalkoxysilane comprising". It is not clear what, if any difference there is between "displays" and "comprising". Clarification is requested.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

8. Claims 1 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nanavati (WO 01/66655) in view of Wyman (US 5,077,135).

Regarding claims 1 and 8-10, Nanavati discloses a coating composition having barrier properties (i.e. barrier layer) (P1/L5-10), comprising N-(2-aminoethyl)-3-aminopropyltrimethoxy silane (i.e. (ii) at least one aminoalkylalkoxysilane; N-(2-aminoethyl)-3-aminopropyltrimeth-oxysilane) (P4/L7-10), pyrogallol (i.e. (iii) at least one polyol; aromatic polyol; pyrogallol) (P6/L6-10), reacted in a solvent such as methanol in an amount of 1% to about 99% of the composition (i.e. reaction products produced under hydrolysis conditions (vi) organic solvent; aliphatic alcohol) (P6/L10-20), further comprising a photoinitiator (i.e. which comprises photoinitiator) (P8/L25-30).

Nanavati does not disclose (i) at least one organoalkoxysilane having organofunctionality comprising at least one unsaturated hydrocarbon group; or that the molar ratio of (i) : (ii) : (iii) is (i) = 1 and (ii) = from 0.5 to 1.5, and (iii) = from 0.3 to 1.1.

Wyman discloses a coating for improving gas impermeability (i.e. a barrier layer) (C2/L1-5), comprising vinyl triethoxy silane (i.e. (i) at least one organoalkoxysilane having organofunctionality comprising at least one unsaturated hydrocarbon group;

vinyltriethoxysilane) (C6/L60-65). Wyman discloses that the siloxane polymers and copolymers provide a coating that is smooth and uniform (C6/L65-68), therefore having improved barrier properties (C3/L42-50).

Nanavati and Wyman are analogous art because they both teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the vinyl triethoxy silane of Wyman in the coating composition of Nanavati to provide a coating composition wherein the coating is smooth and uniform, therefore having improved barrier properties.

Given that the solvent is present in an amount of 1% to 99%, it is the examiner's position that the solids content of the composition would be from 1% to 99% which clearly overlaps the instantly claimed range of 10 to 60% by weight solids.

Neither Nanavati nor Wyman disclose that the molar ratio of (i) : (ii) : (iii) is (i) = 1 and (ii) = from 0.5 to 1.5, and (iii) = from 0.3 to 1.1. However, when faced with a mixture, one of ordinary skill in the art would be motivated by common sense to select a 1:1 ratio, a ratio that falls within the presently claimed amount, absent evidence of unexpected or surprising results. Case law holds that "[h]aving established that this knowledge was in the art, the examiner could then properly rely... on a conclusion of obviousness, 'from common knowledge and common sense of the person of ordinary skill in the art within any specific hint or suggestion in a particular reference.'" *In re Bozek*, 416 F.2d 1385, 1390, 163 USPQ 545, 549 (CCPA 1969).

Alternatively, it is noted that that Nanavati discloses that the pyrogallol reacts with the aminofunctional silane forming a complex which provides unique physical

properties which are good for barrier coatings (P5/L25-30) and that Wyman discloses that the siloxane polymers and copolymers provide a coating that is smooth and uniform (C6/L65-68), therefore having improved barrier properties (C3/L42-50). Since the instant specification is silent to unexpected results, the specific molar ratio of the organoalkoxysilane the aminoalkylalkoxysilane and the polyol is not considered to confer patentability to the claims. As the smoothness/uniformity (i.e. physical properties) of the composition and the barrier properties of the composition are variable(s) that can be modified, among others, by adjusting said molar ratio, the precise molar ratio of these components would have been considered a result effective variable by one having ordinary skill in the art at the time the invention was made. As such, without showing unexpected results, the claimed molar ratio cannot be considered critical. Accordingly, one of ordinary skill in the art at the time the invention was made would have optimized, by routine experimentation, molar ratio of the organoalkoxysilane the aminoalkylalkoxysilane and the polyol to obtain the desired balance between the physical properties and the barrier properties (In re Boesch, 617 F.2d. 272, 205 USPQ 215 (CCPA 1980)), since it has been held that where the general conditions of the claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. (In re Aller, 105 USPQ 223).

9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nanavati (WO 01/66655) in view of Wyman (US 5,077,135), as applied to claim 1 above, in further view of Ichikawa et al. (US 4,735,832) or Komada (US 2001/0038894).

Regarding claim 6, modified Nanavati discloses all of the claim limitations as set forth above. Modified Nanavati does not disclose that the composition employs a component (iv) comprising at least one member selected from the group consisting of tetraethoxysilane, oligomeric tetraalkoxysilane, propyltrimethoxysilane, propyltriethoxysilane, octyltrimethoxysilane, octyltriethoxysilane, alcoholic and/or aqueous compositions of oligomeric cocondensates composed of aminoalkylalkoxysilanes and of fluoroalkylalkoxysilanes and also oligomeric condensates or cocondensates composed of alkylalkoxysilanes, and also oligomeric condensates or cocondensates composed of alkylalkoxysilanes and/or or vinylalkoxysilanes.

Ichikawa discloses a coating having a gas barrier characteristic comprising low permeability to oxygen and carbon dioxide (i.e. barrier layer) (C3/L55-60), comprising a composition comprising organoalkoxy silanes such as tetraethoxy silane (i.e. (iv) at least one member selected from the group consisting of tetraethoxysilane) (C9/L10-20).

Nanavati, Wyman and Ichikawa are analogous art because they both teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the composition comprising tetraethoxy silane of Ichikawa into the composition of modified Nanavati to provide a coating with further improved gas barrier characteristics such as low permeability to oxygen and carbon dioxide.

Komada discloses a gas barrier film (i.e. a barrier layer) ([0001]), comprising tetraethoxysilane ([0140]-[0143]). Komada discloses that the film has improved barrier properties ([0143]).

Nanavati, Wyman and Komada are analogous art because they both teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the tetraethoxysilane of Komada into the composition of modified Nanavati to provide a coating with further improved gas barrier characteristics.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nanavati (WO 01/66655) in view of Wyman (US 5,077,135), as applied to claim 1 above, in further view of Huffer et al. (US 2002/0146525).

Regarding claim 7, modified Nanavati discloses all of the claim limitations as set forth above. Modified Nanavati does not disclose that the component (v) is employed and component (v) comprises at least one member selected from the group consisting of precipitated or fumed silica, silicates, aluminum oxides, aluminum oxide hydroxides and aluminum hydroxide.

Huffer discloses a coating as a barrier to oxygen and moisture (i.e. a barrier layer), comprising aluminum oxide ([0034]).

Nanavati, Wyman and Huffer are analogous art because they all teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the aluminum oxide of Huffer into the

composition of modified Nanavati to provide a composition with enhanced barrier properties to oxygen and moisture.

10. Claims 1 and 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wyman (US 5,077,135) in view of Nanavati (WO 01/66655).

Regarding claims 1 and 8-9, Wyman discloses a coating for improving gas impermeability (i.e. a barrier layer) (C2/L1-5), comprising vinyl triethoxy silane (i.e. (i) at least one organoalkoxysilane having organofunctionality comprising at least one unsaturated hydrocarbon group; vinyltriethoxysilane), gamma-aminopropyl tri-ethoxy silane (i.e. (ii) at least one aminoalkylalkoxysilane; 3-aminopropyltrieth-oxysilane) and methanol, subjected to hydrolysis (i.e. reaction products produced under hydrolysis conditions (vi) an organic solvent; aliphatic alcohol) (C6/L58-65; C5/L5-12). Wyman does not disclose (iii) at least one polyol aromatic polyol; pyrogallol, nor a photoinitiator.

Nanavati discloses a coating composition having barrier properties (i.e. barrier layer) (P1/L5-10), comprising N-(2-aminoethyl)-3-aminopropyltrimethoxy silane (i.e. (ii) at least one aminoalkylalkoxysilane) (P4/L7-10), and pyrogallol (i.e. (iii) at least one polyol; aromatic polyol; pyrogallol) (P6/L6-10), further comprising a photoinitiator (i.e. further comprising photoinitiator) (P8/L25-30). Nanavati further discloses that the pyrogallol reacts with the aminofunctional silane forming a complex which provides unique physical properties which are good for barrier coatings (P5/L25-30).

Wyman and Nanavati are analogous art because they both teach about barrier coatings. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the pyrogallol of Nanavati into the

composition of Wyman to provide a composition having unique physical properties which are good for barrier coatings, and to incorporate the photoinitiator of Nanavati into the composition of Wyman to provide a composition that can be cured more rapidly.

Neither Wyman nor Nanavati disclose that the molar ratio of (i) : (ii) : (iii) is (i) = 1 and (ii) = from 0.5 to 1.5, and (iii) = from 0.3 to 1.1. However, when faced with a mixture, one of ordinary skill in the art would be motivated by common sense to select a 1:1 ratio, a ratio that falls within the presently claimed amount, absent evidence of unexpected or surprising results. Case law holds that "[h]aving established that this knowledge was in the art, the examiner could then properly rely... on a conclusion of obviousness, 'from common knowledge and common sense of the person of ordinary skill in the art within any specific hint or suggestion in a particular reference.'" *In re Bozek*, 416 F.2d 1385, 1390, 163 USPQ 545, 549 (CCPA 1969).

Alternatively, it is noted that that Nanavati discloses that the pyrogallol reacts with the aminofunctional silane forming a complex which provides unique physical properties which are good for barrier coatings (P5/L25-30) and that Wyman discloses that the siloxane polymers and copolymers provide a coating that is smooth and uniform (C6/L65-68), therefore having improved barrier properties (C3/L42-50). Since the instant specification is silent to unexpected results, the specific molar ratio of the organoalkoxysilane the aminoalkylalkoxysilane and the polyol is not considered to confer patentability to the claims. As the smoothness/uniformity (i.e. physical properties) of the composition and the barrier properties of the composition are variable(s) that can be modified, among others, by adjusting said molar ratio, the

precise molar ratio of these components would have been considered a result effective variable by one having ordinary skill in the art at the time the invention was made. As such, without showing unexpected results, the claimed molar ratio cannot be considered critical. Accordingly, one of ordinary skill in the art at the time the invention was made would have optimized, by routine experimentation, molar ratio of the organoalkoxysilane the aminoalkylalkoxysilane and the polyol to obtain the desired balance between the physical properties and the barrier properties (*In re Boesch*, 617 F.2d. 272, 205 USPQ 215 (CCPA 1980)), since it has been held that where the general conditions of the claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. (*In re Aller*, 105 USPQ 223).

Regarding claim 10, Wyman discloses that the composition comprises 10ml of a mixture of silanes dissolved in 90 ml of methanol and 1ml of water . Therefore, the quantity of silanes (i.e. solids content) is calculated to be 9.9% (10ml silanes/101ml total). It is apparent, however, that the instantly claimed amount of silanes and that taught by modified Wyman are so close to each other that the fact pattern is similar to the one in *In re Woodruff* , 919 F.2d 1575, USPQ2d 1934 (Fed. Cir. 1990) or *Titanium Metals Corp. of America v. Banner*, 778 F.2d 775, 227 USPQ 773 (Fed.Cir. 1985) where despite a “slight” difference in the ranges the court held that such a difference did not “render the claims patentable” or, alternatively, that “a prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough so that one skilled in the art would have expected them to have the same properties”.

In light of the case law cited above and given that there is only a “slight” difference between the amount of silanes disclosed by modified Wyman and the amount disclosed in the present claims and further given the fact that no criticality is disclosed in the present invention with respect to the amount of silanes, it therefore would have been obvious to one of ordinary skill in the art that the amount of silanes disclosed in the present claims is but an obvious variant of the amounts disclosed in modified Wyman, and thereby one of ordinary skill in the art would have arrived at the claimed invention.

11. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wyman (US 5,077,135) in view of Nanavati (WO 01/66655), as applied to claim 1 above, in further view of Ichikawa et al. (US 4,735,832) or Komada (US 2001/0038894).

Regarding claim 6, modified Wyman discloses all of the claim limitations as set forth above. Modified Wyman does not disclose that the composition employs a component (iv) comprising at least one member selected from the group consisting of tetraethoxysilane, oligomeric tetraalkoxysilane, propyltrimethoxysilane, propyltriethoxysilane, octyltrimethoxysilane, octyltriethoxysilane, alcoholic and/or aqueous compositions of oligomeric cocondensates composed of aminoalkylalkoxysilanes and of fluoroalkylalkoxysilanes and also oligomeric condensates or cocondensates composed of alkylalkoxysilanes, and also oligomeric condensates or cocondensates composed of alkylalkoxysilanes and/or or vinylalkoxysilanes.

Ichikawa discloses a coating having a gas barrier characteristic comprising low permeability to oxygen and carbon dioxide (i.e. barrier layer) (C3/L55-60), comprising a

composition comprising organoalkoxy silanes such as tetraethoxy silane (i.e. (iv) at least one member selected from the group consisting of tetraethoxysilane) (C9/L10-20).

Wyman, Nanavati and Ichikawa are analogous art because they all teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the composition comprising tetraethoxy silane of Ichikawa into the composition of modified Wyman to provide a coating with further improved gas barrier characteristics such as low permeability to oxygen and carbon dioxide.

Komada discloses a gas barrier film (i.e. a barrier layer) ([0001]), comprising tetraethoxysilane ([0140]-[0143]). Komada discloses that the film has improved barrier properties ([0143]).

Wyman, Nanavati and Komada are analogous art because they both teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the tetraethoxysilane of Komada into the composition of modified Wyman to provide a coating with further improved gas barrier characteristics.

12. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wyman (US 5,077,135) in view of Nanavati (WO 01/66655), As applied to claim 1 above, in further view of Huffer et al. (US 2002/0146525).

Regarding claim 7, modified Wyman discloses all of the claim limitations as set forth above. Modified Wyman does not disclose that the composition employs a component (v) comprising at least one member selected from the group consisting of

precipitated or fumed silica, silicates, aluminum oxides, aluminum oxide hydroxides and aluminum hydroxide.

Huffer discloses a coating as a barrier to oxygen and moisture (i.e. a barrier layer), comprising aluminum oxide ([0034]).

Wyman, Nanavati and Huffer are analogous art because they all teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the aluminum oxide of Huffer into the composition of modified Wyman to provide a composition with enhanced barrier properties to oxygen and moisture.

Response to Arguments

13. Applicant's arguments filed 26 April 2010 have been fully considered but they are not persuasive.

Applicant argues that the Office Action fails to explain how the vinyl triethoxy silane contributes to the smoothness and uniformity of the coating of Wyman or why one of ordinary skill in the art would reasonably expect that such vinyl triethoxy silane could be successfully incorporated into the different combination of components in Nanavati.

Wyman discloses that the siloxane polymers and copolymers provide a coating that is smooth and uniform (C6/L65-68), therefore having improved barrier properties (C3/L42-50).

Applicant's argument is not persuasive because Applicant provides no evidence that one would not reasonably expect that such vinyl triethoxy silane could be successfully incorporated into the composition of Nanavati.

Applicant argues that examiner has not shown some apparent reason to combine the elements of Wyman and Nanavati.

As set forth above, Nanavati and Wyman are analogous art because they both teach about barrier layers. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the vinyl triethoxy silane of Wyman in the coating composition of Nanavati to provide a coating composition wherein the coating is smooth and uniform, therefore having improved barrier properties.

As set forth above, Wyman and Nanavati are analogous art because they both teach about barrier coatings. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the pyrogallol of Nanavati into the composition of Wyman to provide a composition having unique physical properties which are good for barrier coatings, and to incorporate the photoinitiator of Nanavati into the composition of Wyman to provide a composition that can be cured more rapidly.

Applicant argues that examiner provides no basis for the allegation that one of ordinary skill in the art would be motivated by common sense to select a 1:1 ratio.

Contrary to applicant's assertion and absent evidence to the contrary, it is clear that one of ordinary skill in the art at the time the invention was made would first choose equal parts of all components.

Applicant argues that the examples of the present invention demonstrate that compositions that do not include components (i), (ii) and (iii), or that do not include these components in the molar ratio required in claim 1 result in barrier layers with inferior oxygen permeation, therefore showing unexpected results.

First, the cited examples are not commensurate with the scope of the claims given that the examples only show specific components (i), (ii) and (iii) in specific ratios, not the broad components (i), (ii) and (iii) and broad molar ratios recited in the claims.

Second, the cited examples are not commensurate in scope with the closest prior art because none of the comparative examples teach N-(2-aminoethyl)-3-aminopropyltrimethoxy silane or gamma-aminopropyl tri-ethoxy silane.

Third, it is not persuasive because Wyman discloses vinyl triethoxy silane provides a coating having improved barrier properties (C3/L42-50). Therefore, it is not unexpected that the presence of vinyl triethoxy silane would improve the barrier properties.

Fourth, it is not persuasive because Nanavati discloses that the pyrogallol reacts with the aminofunctional silane forming a complex which provides unique physical properties which are good for barrier coatings (P5/L25-30). Therefore, it is not unexpected that the presence of pyrogallol would improve the barrier properties.

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES YAGER whose telephone number is (571)270-3880. The examiner can normally be reached on Mon - Fri, 7:30am-5pm, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JY 4/18/11

/Callie E. Shosho/
Supervisory Patent Examiner, Art Unit 1787